



Arduino Opta Lite

Code: AFX00003 / Barcode: 7630049203549



Overview

Arduino Opta is a secure, easy-to-use micro PLC with Industrial IoT capabilities. Designed in partnership with Finder – leading industrial and building automation device manufacturer – Opta allows professionals to scale up automation projects while leveraging the Arduino ecosystem. Supporting both Arduino sketch and standard PLC languages, including LD (Ladder Logic Diagram) and FBD (Function Block Diagram), it was designed with PLC engineers in mind.

Its powerful STM32H747XI dual-core Cortex®-M7 +M4 MCU allows users to perform real-time control, monitoring and implement predictive maintenance applications. Secure and durable by design, it supports OTA firmware updates and ensures data security from the hardware to the Cloud thanks to the onboard secure element and X.509 Standard compliance. All while maintaining Arduino Pro's signature easy deployment in production thanks to a vast range of readily available software libraries and Arduino sketches.

Last but not least, various connectivity options make keeping everything under control effortless via real-time dashboards combined with the intuitive Arduino Cloud (or third-party services).

Opta comes in three variants so you can choose the best option for your project. Opta Lite is the most agile and features Ethernet onboard and USB-C programming ports. Need more? Check out Opta RS485 or Opta WiFi.

YouTube Video Link: <https://www.youtube.com/watch?v=Vk-TgZ0xQrI>

Program it with the Arduino PLC IDE!

The Arduino PLC IDE makes PLC programming easy. Choose any of the 5 programming languages defined by the IEC 61131-3 standard (Ladder, Functional Block Diagram, Structured Text, Sequential Function Chart or Instruction List) and quickly code PLC applications or port existing ones to Arduino Opta.

Key benefits include:

- Easy and fast software development, starting from ready-to-use Arduino sketches, tutorials and libraries
- Support for standard IEC 61131-3 PLC languages
- Fieldbus integration via Modbus TCP (ethernet) and RTU
- Real-time remote monitoring via intuitive Arduino Cloud dashboards (or third-party services)
- Security at the hardware level thanks to onboard secure element and X.509 Standard compliance
- Secure OTA firmware updates and Cloud device management
- High-power relay switching (4 x 2.3 kW)
- Reliable by design, thanks to industrial certifications and Finder's expertise in switching technology
- Easy to install, with DIN rail compatibility

Opt in to industrial automation

Integrate a solid and reliable micro PLC with your existing machines, devices and production lines – also in combination with other elements in the modular and versatile Arduino ecosystem, from small and smart sensor-packed modules to SOMs to gateways, for end-to-end solutions that can be customized to meet any need.

Quality by design

Arduino Pro partnered with Finder, a leader in the field of electromechanical and electronic components with 65+ years of excellence and expertise to its name, to create a product with high-quality production specs and CE / UL certification as an industrial control device, to meet even the most demanding work conditions in industrial environments.

Need Help?

Check the Arduino Forum for questions about the [Arduino Language](#), or how to make your own [Projects with Arduino](#). If you need any help with your product, please get in touch with the official Arduino User Support as explained in our [Contact Us](#) page.

Warranty

You can find your product warranty information [here](#).

Tech specs

Input	8x configurable digital / analog (0-10V) input
Processor	STM32H747XI Dual ARM® Cortex®: <ul style="list-style-type: none">• Cortex -M7 core up to 480 MHz• Cortex -M4 core up to 240 MHz
Connectivity	Support 10/100 Ethernet (TCP/IP or Modbus TCP) USB-C
Memory	1MB RAM (programming) 2MB internal + 16MB Flash QSPI
RTC	Typical 10 days power retention at 25°C NTP sync available through ethernet
IP protection	IP20
Output	4x relays (250 V AC - 10 A)
Programming languages	<ul style="list-style-type: none">• Arduino programming language via IDE• IEC-61131-3:<ul style="list-style-type: none">○ Ladder Diagram (LD)○ Function Block Diagram (FBD)○ Sequential Function Chart (SFC)○ Structured Text (ST)○ Instruction List (IL)
Security	ATECC608B Secure element
Supply voltage	12...24 V DC
Operating Temperature	-20 °C to +50 °C (-4°F to 122°F)
Certifications	cULus listed, ENEC, CE